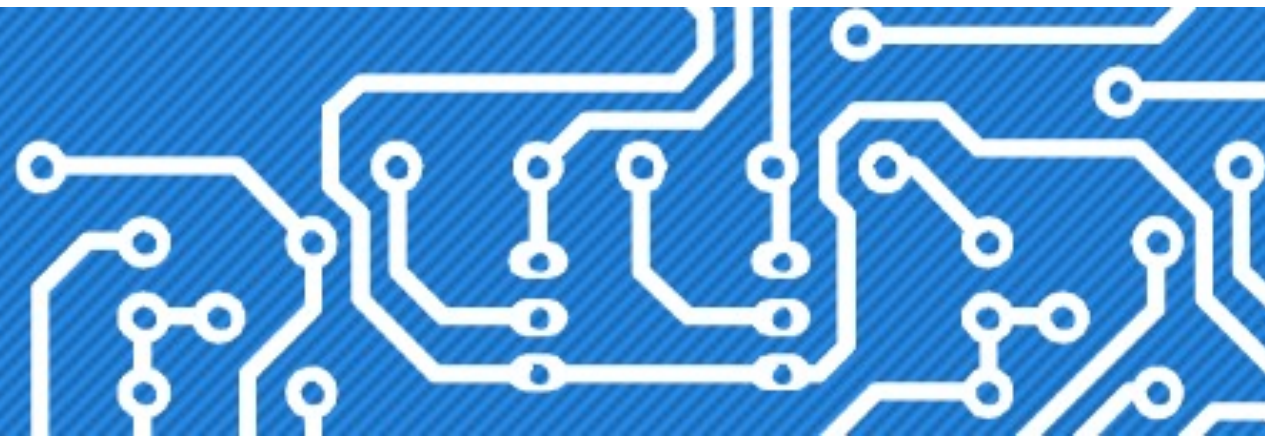


# Placement Retrospective Report

International Symposium  
on Physical Design



# Placement

Several papers which discussed the directions for the future of placement

During the retrospective, we discussed the benchmarks, the contest organization, lessons learnt and the influence of the contest in industry and academia.

Open discussion on how we can use the past to make a path for the future.

# Retrospective

## Strengths:

- New benchmarks, new metrics, and new problems became available
- Spur activity in the area (especially towards the end of the contest)
- Citations for the contest papers
- Experience and internship opportunities for students

# Retrospective

## Weaknesses:

- Benchmarks do not reflect the state-of-the-art technology
- Metrics used are not key design metrics
- Did not provide a collaborative environment between the teams
- Did not have a unified framework to work on

# Retrospective

## Opportunities:

- Effectively combine placement and routing
- Make opportunities for collaboration through open-source design
- Evaluation of methodologies as well as results
- Gaining experience from students by becoming involved in Open access, Si2 and OpenDB

# Retrospective

## Threats

- Balancing different objectives for real life versus winning the contest
- Large commitment requirement from industry
- Integration blocking our way
- Lack of access to leading-edge tools in academia
- Spending efforts on using complicated methods to solve simple problems
- Competing versus collaborating

# Perspectives

- We have a framework with an open database, and tools that can communicate back and forth with each other
- We need a way to categorize and evaluate heuristics and methods that have been developed so that future researchers can develop upon these
- Have students involved with development of open access tools
- We need new problems